



SEQUENCE LISTING

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<120> PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF

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<141> 2001-05-14

<150> 09/564,329  
<151> 2000-05-03

<150> 09/359,326  
<151> 1999-07-20

<150> 09/318,503  
<151> 1999-05-25

<150> 09/251,835  
<151> 1999-02-17

<150> 09/203,939  
<151> 1998-12-02

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<150> 60/124,658  
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<150> 60/120,536  
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<150> 60/071,141  
<151> 1998-01-12

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<170> PatentIn Ver. 2.1

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<213> Homo sapiens

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gcctgcaggc ggagaactgc acccagctgg gggagcagtg ctggaccgcg cgcatccgcg 180  
cagttggcct cctgacgcgc atcagcaaag gctgcagctt gaactgcgtg gatgactcac 240  
aggactacta cgtgggcaag aagaacatca cgtgcgtga caccgacttg tgcaacgcca 300  
gcggggccca tgccctgcag cccgctgccg ccattcctgc gctgctccct gcactcgccc 360  
tgtgtctctg gggaccggc cagctataagg ctctgggggg ccccgctgca gcccacactg 420  
ggtgtggtgc cccaggcctt tggccactc ctcacagaac ctggcccaagt gggagcctgt 480  
cctgggttcct gaggcacatc ctaacgcgaag tttgaccatg tatgtttgca cccctttcc 540  
ccnaaccctg accttccat gggcctttc caggattccn accnnggcaga tcagtttag 600  
tganacanat ccgcntgcag atggcccttc caaccnntt tggntgtt tccatggccc 660  
agcattttcc acccttaacc ctgtgttcaag gcactnttc ccccgagaa ccttccctgc 720  
ccaccccccatt tatgaattga gccagggttg gtccgtggtg tccccccgcac ccagcagggg 780  
acaggcaatc aggagggccc agtaaaggct gagatgaagt ggactgagta gaactggagg 840  
acaagagttg acgtgagttc ctggagttt ccagagatgg ggcctggagg cctggaggaa 900  
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taataaacac ctgttgata agccaaaaaa aaaaaaaaaa 998

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Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn  
20 25 30

Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Gln Cys  
35 40 45

Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys  
50 55 60

Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly  
65 70 75 80

Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly  
85 90 95

Ala His Ala Leu Gln Pro Ala Ala Ile Leu Ala Leu Pro Ala

100 105 110

Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu  
115 120

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<213> Mus musculus

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tgcagcctgg accagcacag ttgcttaca tcgcgcattcc gggccattgg actcgtgaca 180  
gttatacgta agggctgcag ctcacagtgt gaggatgact cggagaacta ctatttggc 240  
aagaagaaca tcacgtgctg ctactctgac ctgtcaatg tcaacggggc ccacaccctg 300  
aagccaccca ccaccctggg gctgctgacc gtgcttgca gcctgttgcgt gttgggctcc 360  
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<212> PRT  
<213> Mus musculus

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20 25 30

Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys  
35 40 45

Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys  
50 55 60

Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly  
65 70 75 80

Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly  
85 90 95

Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu  
100 105 110

Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu  
115 120

<210> 5  
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<213> Homo sapiens

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Met Lys Ile Phe Leu Pro Val Leu Leu Ala Ala Leu Leu Gly Val Glu  
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Arg Ala Ser Ser Leu Met Cys Phe Ser Cys Leu Asn Gln Lys Ser Asn  
20 25 30

Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys  
35 40 45

Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly  
50 55 60

His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly  
65 70 75 80

Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe  
85 90 95

Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr  
100 105 110

Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg  
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Phe Gly Pro  
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<213> Homo sapiens

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Met Lys Ala Val Leu Leu Ala Leu Leu Met Ala Gly Leu Ala Leu Gln  
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Pro Gly Thr Ala Leu Leu Cys Tyr Ser Cys Lys Ala Gln Val Ser Asn  
20 25 30

Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys  
35 40 45

Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys  
50 55 60

Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly  
65 70 75 80

Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly  
85 90 95

Ala His Ala Leu Gln Pro Ala Ala Ile Leu Ala Leu Leu Pro Ala  
100 105 110

Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu  
115 120

<210> 7  
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Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn  
20 25 30

Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys  
35 40 45

Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys  
50 55 60

Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly  
65 70 75 80

Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly  
85 90 95

Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu  
100 105 110

Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu  
115 120

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<213> Artificial Sequence

<220>  
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<210> 9  
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<220>  
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<400> 9  
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<210> 10  
<211> 408  
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ANTIBODY 1G8

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aacattaaag actactatat acactgggtg aatcagaggc ctgaccaggc cctggagtgg 180  
attggatgga ttgatcctga gaatgggtgac actgaatttg tcccgaagtt ccagggcaag 240  
gccactatga ctgcagacat ttctccaac acagcttacc tgcaccttag cagcctgaca 300  
tctgaagaca ctgcccgtcta ttactgtaaa acggggggtt tctggggcca agggactctg 360  
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Leu Gln Gln Ser Gly Ala Glu Leu Val Arg Ser Gly Ala Ser Val Lys  
20 25 30

Leu Ser Cys Thr Ala Ser Gly Phe Asn Ile Lys Asp Tyr Tyr Ile His  
35 40 45

Trp Val Asn Gln Arg Pro Asp Gln Gly Leu Glu Trp Ile Gly Trp Ile  
50 55 60

Asp Pro Glu Asn Gly Asp Thr Glu Phe Val Pro Lys Phe Gln Gly Lys  
65 70 75 80

Ala Thr Met Thr Ala Asp Ile Phe Ser Asn Thr Ala Tyr Leu His Leu  
85 90 95

Ser Ser Leu Thr Ser Glu Asp Thr Ala Val Tyr Tyr Cys Lys Thr Gly  
100 105 110

Gly Phe Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr  
115 120 125

Thr Pro Pro Ser Val Tyr Pro Leu  
130 135

<210> 12  
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<212> DNA  
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ANTIBODY 4A10

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agctactgga tgcactgggt gaagcagagg cctggacaag gccttgagtg gattggaaat 180  
atggaccctg gtatgtgtta cactaactac gctgagaacc tcaagaccaa ggccacactg 240  
actgttagaca catcctccag cacagcctac atgcagctca gcagcctgac atctgaggac 300  
tctgcagtct attactgtac aagccgatct actatgatta cgacgggatt tgcttactgg 360  
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ANTIBODY 4A10

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Pro Gly Ser Glu Leu Val Arg Pro Gly Thr Ser Val Lys Leu Ser Cys  
20 25 30

Lys Ala Ser Gly Tyr Thr Phe Ser Ser Tyr Trp Met His Trp Val Lys  
35 40 45

Gln Arg Pro Gly Gln Gly Leu Glu Trp Ile Gly Asn Ile Asp Pro Gly  
50 55 60

Ser Gly Tyr Thr Asn Tyr Ala Glu Asn Leu Lys Thr Lys Ala Thr Leu  
65 70 75 80

Thr Val Asp Thr Ser Ser Thr Ala Tyr Met Gln Leu Ser Ser Leu  
85 90 95

Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys Thr Ser Arg Ser Thr Met  
100 105 110

Ile Thr Thr Gly Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val  
115 120 125

Ser Ala Ala Thr Thr Ala Pro Ser Val Tyr Pro Leu Ala

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135

140

<210> 14  
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ANTIBODY 2H9

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tgtgttagcct ctggatttac tttcagtaat tactggatga cttgggtccg ccagtctcca 180  
gagaaggggc ttgagtggtt tgctgaaatt cgattgagat ctgaaaatta tgcaacacat 240  
tatgcggagt ctgtgaaagg gaaattcacc atctcaagag atgattccag aagtgcgtctc 300  
tacctgcaaa tgaacaactt aagacctgaa gacagtggaa ttttattactg tacagatgg 360  
ctgggacgac ctaactgggg ccaagggact ctggtcactg tctctgcagc caaaacgaca 420  
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20 25 30  
  
Pro Gly Gly Ser Met Lys Leu Ser Cys Val Ala Ser Gly Phe Thr Phe  
35 40 45  
  
Ser Asn Tyr Trp Met Thr Trp Val Arg Gln Ser Pro Glu Lys Gly Leu  
50 55 60  
  
Glu Trp Val Ala Glu Ile Arg Leu Arg Ser Glu Asn Tyr Ala Thr His  
65 70 75 80  
  
Tyr Ala Glu Ser Val Lys Gly Lys Phe Thr Ile Ser Arg Asp Asp Ser  
85 90 95  
  
Arg Ser Arg Leu Tyr Leu Gln Met Asn Asn Leu Arg Pro Glu Asp Ser  
100 105 110  
  
Gly Ile Tyr Tyr Cys Thr Asp Gly Leu Gly Arg Pro Asn Trp Gly Gln  
115 120 125

Gly Thr Leu Val Thr Val Ser Ala Ala Lys Thr Thr Pro Pro Ser Val  
130 135 140

Tyr Pro Leu Ala Pro Cys Val  
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<210> 16  
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<400> 16  
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<210> 17  
<211> 12  
<212> PRT  
<213> Homo sapiens

<400> 17  
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1 5 10

<210> 18  
<211> 15  
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<213> Homo sapiens

<400> 18  
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1 5 10 15

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<223> Description of Artificial Sequence: RT-PCR PRIMER

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<223> g or t

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<223> a or c

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<223> c or t

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<222> (25)..(26)  
<223> a or g

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<223> g or t  
  
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39

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